



"techniheat



processed"



RALPH R. BAUER
6314 Military Ave
Wa. 5307 Omaha

THORSEN
TOOLS

SAVE MONEY on Your Cylinder Honing Equipment

We replace worn-out Abrasive
Units in your old brackets.

OUR EXCHANGE SERVICE MAKES
THIS GREAT SAVING POSSIBLE

Renewal Service Charges:

MAKE		Costs You New	Our Replacement Charge
Hutto.....	(6 Stones)	\$6.00	\$5.25
Hall.....	(4-4" Stones)	3.85	2.60
Hall.....	(4-6" Stones)	5.20	3.60
Hall.....	(4-8" Stones)	7.60	5.25
Ammco.....	(4-5" Stones)	4.00	3.00
Ammco.....	(5-4" Stones)	5.00	3.70
Auto.....	(4-8" Stones)	8.00	5.25
Buffalo.....	(4-5" Stones)	5.25	3.80
Sunnan.....	(4-4" Stones)	4.50	3.40

Other Makes and Sizes Also Renewed.

SAVE MONEY ON FILES, USE OUR RESHARPENING SERVICE

Compare these resharpening prices with new files. All resharpening
done on the new Truvix sharpening machine.

PRICE LIST

FENDER FILES 12 & 14" flat or curved ea. \$0.50

Mill files		Bastard files	
6" and under.....	\$0.05	6" and under.....	.05
8" .....	.10	8" .....	.15
10" .....	.15	10" .....	.20
12" .....	.20	12" .....	.25
14" .....	.25	14" .....	.30
16" .....	.30	16" .....	.35
18" .....	.35	18" .....	.40

All prices subject to change without notice.

"TECHNIHEAT"

PROCESSED

TOOLS

Tools made by this process are superior in
STRENGTH - DURABILITY - SAFETY

"Techniheat" is a newly developed process applied to the
manufacturing of tools

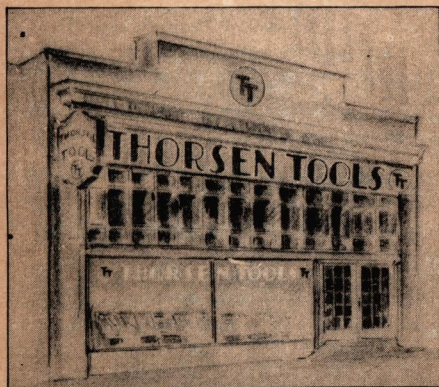


FACTORY

5321 Horton St, Oakland, Calif.

Olympic 3728

SCIENTIFIC HEAT TREATING AND FORGING



GENERAL SALES OFFICE

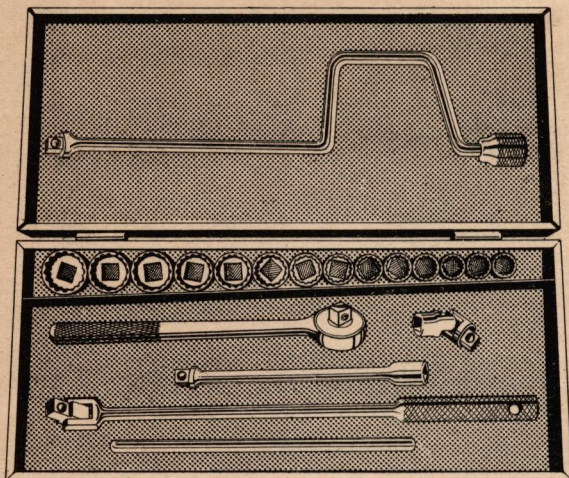
**NEW
PRICES
DESIGN
QUALITY
PROGRESS**

Thorsen Tool Company
1475 Bush Street » » San Francisco
Phone ORdway 4730

LOS ANGELES SALES
1352 S. Flower
Phone Prospect 1923

EASTERN SALES
Quality Tools Corp.
New Wilmington, Pa.

THE WORLDS FINEST TOOLS



1/2"
sq.
Con.

No. TH-9 Techniheat Socket Set

Price complete in steel case.....\$17.80
If steel case not required, deduct.....\$1.50

A complete set of socket wrenches, organized to do a great deal of work with a minimum number of parts.

List of Parts

No.		Price
62	Speeder, 10" shank below bend.....	\$1.35
55	Extension, 8".....	.85
33	Universal joint.....	1.50
77	Reversible ratchet.....	3.50
15	Link joint handle.....	2.25

Thin Straight Wall Sockets

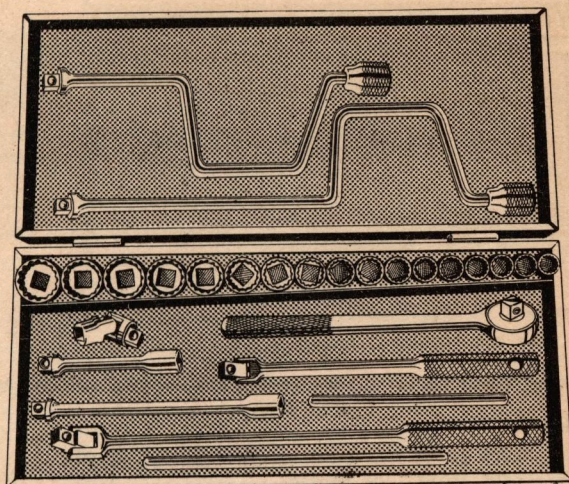
No.	Opening	Price
514	7/16".....	\$0.35
516	1/2".....	.40
518	9/16".....	.45
519	19/32".....	.45
520	5/8".....	.45
521	21/32".....Ford con rod.....	.45
522	11/16".....	.50
524	3/4".....	.50
525	25/32".....	.50
526	13/16".....	.50
528	7/8".....	.55
530	15/16".....	.55
532	1".....	.60
534	1-1/16".....	.60

THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**

PERFECTED DESIGN AND QUALITY



1/2"
sq.
Con.

No. TH-11 Super Techniheat Socket Set

Price complete in steel case..... \$24.15

If steel case not required, deduct..... \$ 1.50

Built to meet the requirements of the professional mechanic. Contains twenty five items. Flex handles have 1/2" square service connection in end of handle.

List of Parts

No.		Price	No.		Price
61	Speeder, 5" shank below bend.....	\$ 1.35			
62	Speeder, 10" shank below bend.....	1.35			
53	Extension, 5".....	.80			
57	Extension, 10".....	.90			
33	Universal joint.....	1.50			
77	Reversible ratchet.....	3.50			
16	Link joint flex handle.....	2.40			
14	Link joint flex handle.....	1.95			

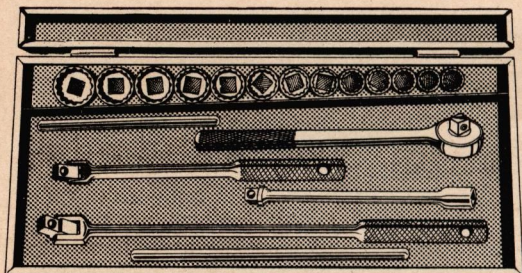
No.	Socket opening	Price	No.	Socket opening	Price
514	7/16".....	\$0.35	525	25/32".....	\$0.50
516	1/2".....	.40	526	13/16".....	.50
518	9/16".....	.45	528	7/8".....	.55
519	19/32".....	.45	530	15/16".....	.55
520	5/8".....	.45	532	1".....	.60
521	21/32".....	.45	534	1-1/16".....	.60
522	11/16".....	.50	536	1-1/8".....	.65
524	3/4".....	.50	538	1-3/16".....	.70
			540	1-1/4".....	.80

THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**

THE WORLDS FINEST TOOLS



1/2"
square
connection

No. TH-8 Techniheat Socket Set

Price complete in steel case..... \$16.55
If steel case not required, deduct..... \$ 1.50

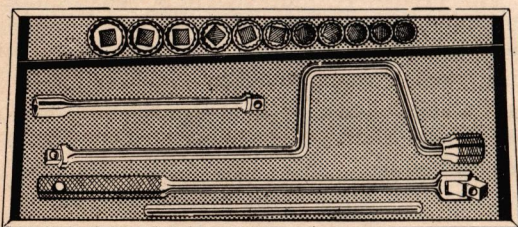
A kit of speed tools to service all popular SAE and USS nuts

List of Parts

No.		Price
16	Link joint flex handle.....	\$2.40
14	Link joint flex handle.....	1.95
77	Reversible ratchet.....	3.50
53	Extension, 5".....	.80

Thin Straight Wall Sockets

No.	Opening	Price	No.	Opening	Price
514	7/16".....	\$0.35	525	25/32".....	\$0.50
516	1/2".....	.40	526	13/16".....	.50
518	9/16".....	.45	528	7/8".....	.55
519	19/32".....	.45	530	15/16".....	.55
520	5/8".....	.45	532	1".....	.60
522	11/16".....	.50	534	1-1/16".....	.60
524	3/4".....	.50			



1/2"
square
connection

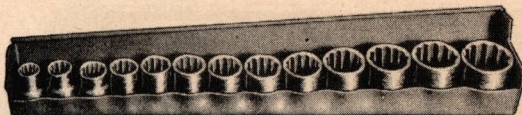
No. TH-10 Techniheat Socket Set

Price complete in steel case..... \$ 11.20
If steel case not required, deduct..... \$ 1.50

List of Parts

11	- Thin straight wall sockets so listed above in TH-9 Set	\$ 5.35
No. 15	Link joint handle.....	2.25
No. 55, 8"	extension.....	.85
No. 62	Speeder.....	1.25
		9.70

PERFECTED DESIGN AND QUALITY



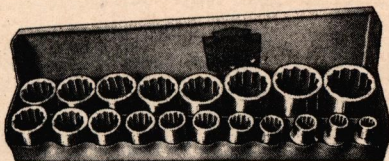
1/2"
square
connection

No. TH-13 Techniheat Set of Sockets

Price in steel carrying case.....\$6.85
If steel case not required, deduct.....\$0.45
Super-safe sockets, the kind that stand up under the hardest strain and abuse.

List of Thin Straight Wall Sockets

No.	Opening	Price	No.	Opening	Price
514	7/16".....	\$0.35	525	25/32".....	\$0.50
516	1/2".....	.40	526	13/16".....	.50
518	9/16".....	.45	528	7/8".....	.55
519	19/32".....	.45	530	15/16".....	.55
520	5/8".....	.45	532	1".....	.60
522	11/16".....	.50	534	1-1/16".....	.60
524	3/4".....	.50			



1/2"
square
connection

No. TH-19 Techniheat Set of Sockets

Price in steel carrying case.....\$10.50
If steel case not required, deduct.....\$ 0.55

This set of sockets contains every size standard socket, fits every possible SAE and USS nut bolts and cap screws and some special sizes.

List of Thin Straight Wall Sockets

No.	Opening	Price	No.	Opening	Price
512	3/8".....	\$0.35	526	13/16".....	\$0.50
514	7/16".....	.35	528	7/8".....	.55
516	1/2".....	.40	530	15/16".....	.55
518	9/16".....	.45	531	31/32".....	.60
519	19/32".....	.45	532	1".....	.60
520	5/8".....	.45	534	1-1/16".....	.60
521	21/32".....	.45	536	1-1/8".....	.65
522	11/16".....	.50	538	1-3/16".....	.70
524	3/4".....	.50	540	1-1/4".....	.80
525	25/32".....	.50			

THORSEN 1475 BUSH ST.

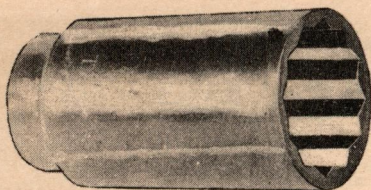


SAN FRANCISCO TOOLS

THE WORLDS FINEST TOOLS

Average
length of
sockets 3"

1/2"
square
connection



Extra Deep Techniheat Sockets

Use these handy sockets on shackle and body bolts, transmission and differential housing cap screws and bolts.

LIST OF SIZES

No.	Opening	Price	No.	Opening	Price
614	7/14".....	\$0.65	628	7/8".....	\$0.85
616	1/2".....	.65	629	29/32".....	.90
618	9/16".....	.65	630	15/16".....	.90
619	19/32".....	.75	631	31/32".....	1.00
620	5/8".....	.75	632	1".....	1.00
622	11/16".....	.80	634	1-1/16".....	1.00
624	3/4".....	.80	636	1-1/8".....	1.00
625	25/32".....	.85	638	1-3/16".....	1.10
626	13/16".....	.85	640	1-1/4".....	1.10



Average
Length of
sockets 2"

3/8"
square
connection

Junior Type Extra Deep Techniheat Sockets

This type of socket for Junior socket set parts are shorter than the standard deep sockets and are very useful in many places.

LIST OF SIZES

No.	Opening	Price	No.	Opening	Price
614J	7/16".....	\$0.55	620J	5/8".....	\$0.55
616J	1/2".....	.55	622J	11/16".....	.65
618J	9/16".....	.55	624J	3/4".....	.65

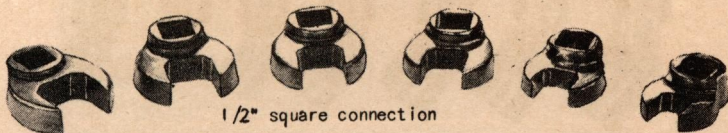
THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

PERFECTED DESIGN AND QUALITY

Techniheat Block Sockets



Block sockets have a distinctive place in every tool box. Use them on cylinder blocks, main bearings, con rods, body bolts, etc., where the clearance is too limited to use sockets.

No.	Opening	Price	No.	Opening	Price
714	7/16".....	\$0.75	720	5/8".....	\$0.80
716	1/2".....	.75	722	11/16".....	.80
718	9/16".....	.75	724	3/4".....	.85
			728	7/8".....	.90

Techniheat Tie Rod Sockets

1/2" square connection



Techniheat Tie Rod Sockets are made of the very best heat treated alloy steel. One of the most convenient sockets you can use



No.		Price
576	15/16" Drag link or Tie Rod socket	\$0.50
577	1-1/4" Drag link or Tie Rod socket .....	.65
578	1-1/2" Drag link or Tie Rod socket .....	.90
376	3/4" Junior Tie Rod socket, 3/8" sq. connection .....	.50

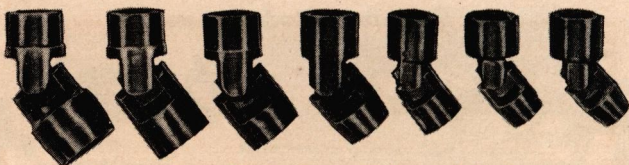
SOCKET SIZE TABLE					SOCKET SIZE TABLE				
SOCKET OPENING INCHES	S. A. E. NUTS AND CAP SCREWS	U. S. S. CAP SCREWS	U. S. S. NUTS AND BOLTS	AMERICAN STANDARD	SOCKET OPENING INCHES	S. A. E. NUTS AND CAP SCREWS	U. S. S. CAP SCREWS	U. S. S. NUTS AND BOLTS	AMERICAN STANDARD
3/16				No. 3	1-1/16	3/4		5/8	
1/4				4	1-1/8		7/8		
5/16		1/8	1/8	5, 6	1-1/4	7/8	1"	3/4	
11/32				8	1-3/8		1-1/8		
3/8		3/16		10	1-7/16	1"		7/8	
13/32				11	1-1/2		1-1/4		
7/16	1/4	1/4	1/4	12	1-5/8	1-1/8		1"	
1/2	5/16	5/16	1/4	5/16	1-13/16	1-1/4		1-1/8	
9/16	3/8	3/8			1-7/8				1-1/4
19/32			5/16		2"	1-3/8		1-1/4	
5/8	7/16	7/16			2-1/8				
11/16			3/8		2-3/16	1-1/2		1-3/8	
3/4	1/2	1/2			2-1/4				1-1/2
25/32			7/16		2-3/8			1-1/2	
13/16		9/16			2-1/2				
7/8	9/16	5/8	1/2		2-5/8				1-3/4
15/16	5/8				2-3/4			1-3/4	
31/32			9/16		2-15/16			1-7/8	
1"	11/16	3/4			3-1/8			2"	

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

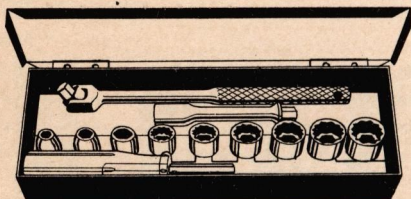
THE WORLDS FINEST TOOLS



Super Short Techniheat Universal Sockets

Short, thin and extra strong. Ideal for manifold nuts and other close places where a short turning radius is necessary.

1/2" sq. connection			Junior 3/8" sq. connection		
No.	Opening	Price	No.	Opening	Price
412	3/8".....	\$1.50	412J	3/8".....	\$1.50
414	7/16".....	1.50	414J	7/16".....	1.50
416	1/2".....	1.50	416J	1/2".....	1.50
418	9/16".....	1.50	418J	9/16".....	1.50
420	5/8".....	1.50	420J	5/8".....	1.50
422	11/16".....	1.50	422J	11/16".....	1.50
424	3/4".....	1.50	424J	3/4".....	1.50



A handful of
handy tools
Smallest made.

Special 1/4" hex
connection

Miniature Techniheat Socket Set

Price complete in steel case.....\$4.65
If steel case not required, deduct... .35

This is the smallest, extra strength, thin, socket set on the market. Examine this set before you decide. This one has features not possessed by any other. Ideal for electrical, ignition, radio or any other small work.

MINIATURE SOCKET PRICE LIST

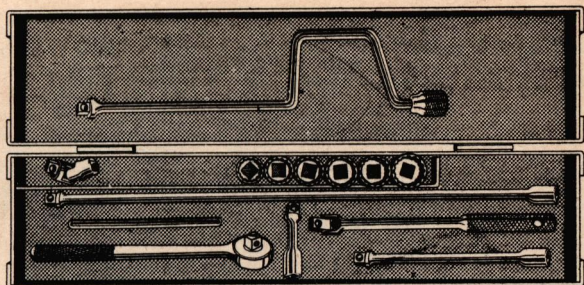
No.		Price	No.		Price
12M	Link joint handle.....	\$1.25			
51M	Extension.....	.30			
15M	Spintite handle.....	.50			
No.	Opening	Price	No.	Opening	Price
6M	3/16".....	\$0.25	11M	1 1/32".....	\$0.25
7M	7/32".....	.25	12M	3/8".....	.25
8M	1/4".....	.25	13M	13/32".....	.25
9M	9/32".....	.25	14M	7/16".....	.25
10M	5/16".....	.25			

THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**

PERFECTED DESIGN AND QUALITY



3/8"
sq.
Con.

No. TH-14 Junior Techniheat Socket Set

All necessary parts to make a complete Junior socket set at minimum Initial cost.

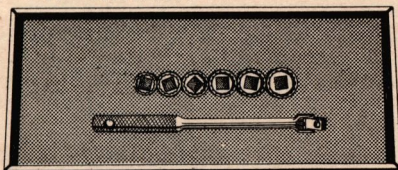
Price complete in steel case.....\$12.60
If steel case not required, deduct..... 1.50

List of Parts

No.		Price
12J	Link joint handle.....	\$1.50
62J	Speeder, 10" below bend.....	1.25
50J	Extension, 2".....	.50
53J	Extension, 5".....	.60
59J	Extension, 18".....	1.15
77J	Ratchet and connector.....	2.45
33J	Universal joint.....	1.50

Thin Straight Wall Sockets

No.	Opening	Price
314	7/16".....	\$0.30
316	1/2".....	.35
318	9/16".....	.35
320	5/8".....	.35
322	11/16".....	.40
324	3/4".....	.40



3/8"
sq.
Con.

No. TH-7 Junior Techniheat Socket Set

Lay the foundation for a complete set with this group of Junior socket set parts. Price in cardboard box.....\$3.25

List of Parts

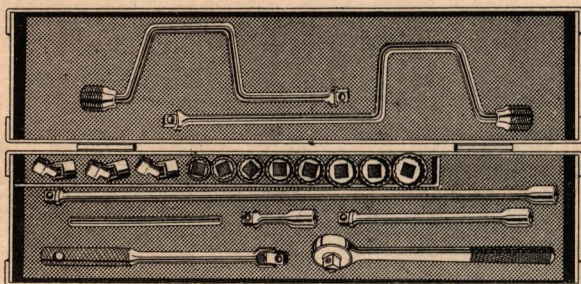
No.	Opening	Price	No.	Opening	Price
12J	Link joint handle...	\$1.50	318	9/16".....	\$0.35
314	7/16" Socket.....	.30	320	5/8".....	.35
316	1/2".....	.35	324	3/4".....	.40

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

THE WORLDS FINEST TOOLS



3/8"
sq.
Con.

No. TH-12 Junior Techniheat Socket Set

Price complete in steel case.....\$17.45
If case not required, deduct..... 1.50

A very complete assembly of Junior socket set parts. Built for speed and convenience. Will service all nuts from 3/8" to 3/4" opening.

LIST OF PARTS

No.		Price
12J	Link joint handle.....	\$1.50
61J	Speeder, 5" below bend.....	1.20
62J	Speeder, 10" below bend.....	1.25
50J	Extension, 2".....	.50
53J	Extension, 5".....	.60
59J	Extension, 18".....	1.15
77J	Ratchet and connector.....	2.45

UNIVERSAL JOINT SOCKETS

No.	Opening	Price
416J	1/2".....	\$1.50
418J	9/16".....	1.50
420J	5/8".....	1.50

THIN STRAIGHT WALL SOCKETS

No.	Opening	Price
312	3/8".....	\$0.30
314	7/16".....	.30
316	1/2".....	.35
318	9/16".....	.35
320	5/8".....	.35
321	21/32".....	.35
322	11/16".....	.40
324	3/4".....	.40

THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**

PERFECTED DESIGN AND QUALITY

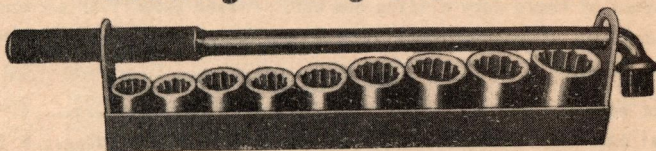
SPECIAL NOTE: The following list of parts, $\frac{3}{8}$ " square connection, not included in lists of Junior Sockets sets may be obtained.

No.		Price	No.		Price
308	1/4" opening socket	\$0.30	55J	Extension, 7"	\$0.65
310	5/16" opening socket	.30	57J	Extension, 10"	.70
319	19/32" opening socket	.35	42J	Sliding bar T head	1.00
51J	Extension, 3"	.55	68J	Speeder, 8" below	1.20

The following list of parts, $\frac{1}{2}$ " square connection, not included in lists of standard socket sets may be obtained.

No.		Price	No.		Price
60	Speeder, 2" below bend	\$1.20	59	Extension, 18"	\$1.25
65	Speeder, 18" below bend	1.50	42	Sliding bar T head	1.00
67	Speeder, 24" below bend	1.60	21	Short bend "L" hdl.	.90
51	Extension, 3"	.70	23	Long bend "L" hdl.	1.25

Heavy Duty Socket S



NO. TH-16 GIANT HEAVY DUTY TECHNI-HEAT SOCKET SET ($\frac{3}{4}$ " sq. connection)

A valuable addition to the service shop. Set contains nine of the most popular sockets. Assembled to service on all large nuts commonly encountered.

Price of set complete in case.....\$11.25
If steel case not required, deduct.....\$.75

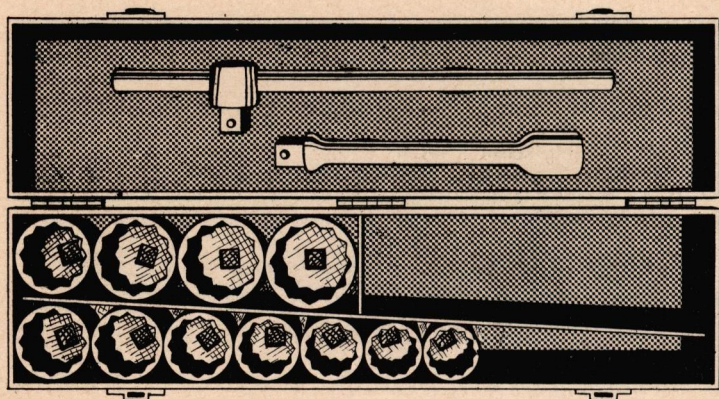
No.	Opening	Price
1230	15/16".....	\$0.65
1232	1".....	.65
1234	1-1/16".....	.75
1236	1-1/8".....	.80
1240	1-1/4".....	.90
1244	1-3/8".....	1.10
1246	1-7/16".....	1.20
1248	1-1/2".....	1.30
1252	1-5/8".....	1.40
21HD	Heavy duty "L" handle	1.75

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

THE WORLD'S FINEST TOOLS



No. TH-15 Heavy Duty Techniheat Socket Set 3/4" sq. Con.

This set begins with socket sizes properly termed heavy duty. The set can be obtained with Giant Link Joint handle (not illustrated) instead of heavy duty sliding tee bar. Please specify this change if desired, when ordering. A corresponding change in price of set will be made

Price of set in steel case.....\$23.35
If steel case not required, deduct.....\$ 2.50

LIST OF SOCKETS

No.	Opening	Price
1240	1-1/4".....	\$0.90
1242	1-5/16".....	1.00
1244	1-3/8".....	1.10
1246	1-7/16".....	1.20
1248	1-1/2".....	1.30
1252	1-5/8".....	1.40
1256	1-3/4".....	1.80
1258	1-13/16".....	1.90
1260	1-7/8".....	2.00
1264	2".....	2.25
1268	2-1/8".....	2.50

ADDITIONAL PARTS

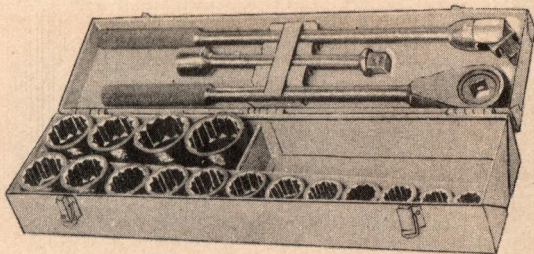
18-X	Extension, heavy duty, 10"	1.50
17	Heavy duty sliding tee bar	2.00

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

PERFECTED DESIGN AND QUALITY



3/4"
square
connection

No. TH-5 Techniheat Heavy Duty Socket Set

The most complete and compact heavy duty socket set. Contains sixteen sockets, Giant link joint handle, extension and ratchet. Every piece built for the hardest service you can give it.

Price complete in steel case\$36.25
If steel case not required, deduct.....\$ 2.50

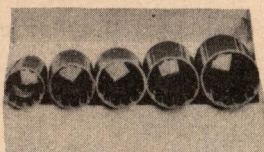
No.	Opening	Price
1230	15/16".....	\$0.65
1232	1".....	.65
1234	1-1/16".....	.75
1236	1-1/8".....	.80
1238	1-3/16".....	.80
1240	1-1/4".....	.90
1242	1-5/16".....	1.00
1244	1-3/8".....	1.10
1246	1-7/16".....	1.20
1248	1-1/2".....	1.30
1252	1-5/8".....	1.40
1256	1-3/4".....	1.80
1258	1-13/16".....	1.90
1260	1-7/8".....	2.00
1264	2".....	2.25
1268	2-1/8".....	2.50
18	Heavy duty link joint handle	3.75
18-X	Extension, heavy duty, 10"	1.50
79	Heavy duty ratchet and connector	7.50

THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**

THE WORLDS FINEST TOOLS

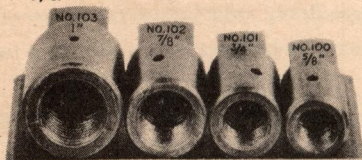


Techniheat Spark Plug Sockets

No. TH-6 Set complete as illustrated \$5.50

This set of super thin wall techniheat processed spark plug sockets is one of the most highly approved sets on the market. They are made with the correct degree thinness and fit all sizes of spark plugs including the new 14MM being used now on high compression motors.

No.	SOCKET OPENING	PRICE
626	13/16 New Nash	\$0.85
628	7/8	.85
629	29/32 New Buick	.90
630	15/16	.90
632	1"	1.00
636	1-1/8	1.00



Techniheat Knockoff Wheel Starters

Several new sizes of these popular Wheel Knockoffs have been added to the list published in the previous catalogs. These Wheel Starters of the Knock-off type are forged from the best of steel and are expertly tempered and heat treated.

The air vent hole drilled in the side of the Thorsen Knock-offs is a safety feature. Lessens the danger of thread damage. Made of specially selected alloy steel.

No.	Axle dia. & Thread	Price
100	5/8"-18.....	\$0.75
100S	5/8"-18 Deep.....	0.75
101	3/4"-16.....	0.80
101C	13/16"-16 New Chev.....	0.85
102	7/8"-14.....	0.85
102N	7/8"-16 (1931 Nash only).....	0.85
102E	7/8"-18.....	0.85
102NA	7/8"-20.....	0.85
103	1"-14.....	0.90
104	1-1/8"-12.....	1.25
106	1-1/4"-12.....	2.00
107	1-1/4"-7.....	2.00

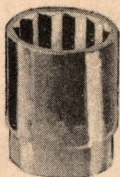
THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**

PERFECTED DESIGN AND QUALITY

Special Ford Tools



**Connecting Rod
and
Main Bearing Sockets
for
Model A, AA, B Fords**

No. 521 Con Rod Socket
2 1/32" opening.
Price.....\$0.45



No. 518SS - M. Brg.
socket. Sq. opening
Price.....\$0.45



**Connecting Rod
and
Main Bearing Sockets
for
Model V 8 Fords**

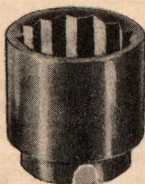
No. 10118
9/16" opening
Spec. design
Con Rod Socket
Price....\$0.45



No. 10156 Pan snap ups
Price per pair.....\$0.40



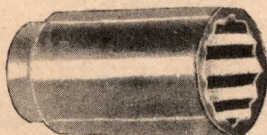
No. 10181
Special design
handle locking
Main Bearing
Socket Wrenches
Price per Pr.\$1.80



No. 10144 Fan Pulley lock nut
socket, each..... \$1.15



No. 10118-A, Special extra short
socket to be used to remove Mod.
A brake shoe cap screw.
Price each \$0.45

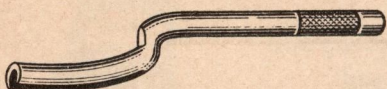


Clutch Nut Socket

No. 640- 1-1/4" open. Price..\$1.10
Permits ready access to clutch nut.
Uses standard 1/2" square handle
fitting.

THE WORLDS FINEST TOOLS

Special Ford Tools



No. 10120 Special design
valve guide bushing punch.
For Models A- AA - B - BB

A very necessary tool when doing a valve grind job. Each - \$0.65
No. 10123. Same as above except design changed to fit V-8 Ford \$0.65



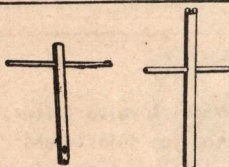
No. 10125 Model A
False valve guide.
To be used in place
of regular guides
after they have been
knocked out.
Price.....\$0.75



No. 10126
Model V-8
False
Valve
Guide
Simplifies
V-8 valve
jobs.
Price -
\$1.00

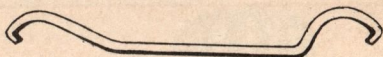


No. 10128 Sucker type grinder, for Model
A and V-8. Made of best material. Set
your screwdriver in it and go to work.
Price Each.....\$0.15
Long wooden handle type with cup, Ea-\$0.25



Mod A V-8
Carburetor Jet Wrenches

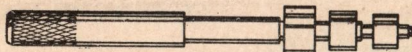
No. 10111 Mod A Ea. \$0.90
No. 10108 V-8 Each .90



No. 10119 Combination V-8 Generator
and Model A Pump Nut Spanner. Ea. \$1.25



No. 10143 Crank case speeder.....\$1.25

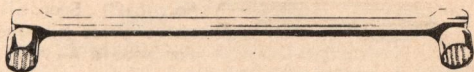


No. 10151 Bushing driver.....\$2.50

This bushing driver will knock out seven different sizes of bushings.
In addition to regular steps on driver, three hardened steel rings can
be slipped on steps to increase sizes. Will punch out following sizes:
1/2...5/8...3/4...7/8...1"...1-1/8...1-1/4"

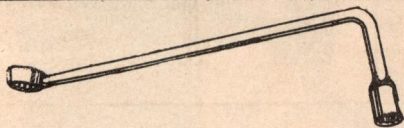
PERFECTED DESIGN AND QUALITY

Special Ford Tools



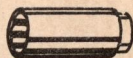
No. 10115 Special link joint socket handle for Model A-AA-B. Has 3/4" opening socket on one end (for hex main bearing nut) and 9/16" square opening socket on other end (for square main bearing nut.) Each.....\$2.50

No. 10117 Same handle as above with 2 1/32" opening socket instead of 9/16" square opening socket. Intended for use on hex main bearing nut and con rod nut. Each....\$2.50



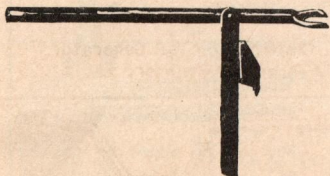
No. 10122 Cylinder head cap screw wrench
Price.....\$2.25

A wrench that has saved its cost many times for thousands of mechanics. Clears all obstructions. Has 1 1/16" box socket on one end and 1 1/16" socket on other.

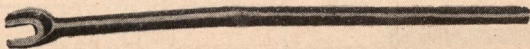


No. 636 Special spark plug socket wrench for Model A and AA Ford.....\$1.00

No. 632 Special spark plug socket wrench for Model V-8 Ford \$1.00
Socket service connection for 1/2" square.



No. 10129 Model A valve lifter. Made to do the job quickly and easily. Good grip, plenty of leverage. Price.....\$1.00.



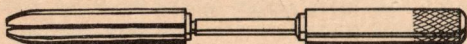
No. 10130 Model V-8 valve lifter. An original design that makes V-8 valve jobs simple. Allow lifter to rest on opposite block at point of bend. Price.....\$1.00

THE WORLDS FINEST TOOLS

Special Ford Tools



No. 10150 Model A piston pin inserter.....\$2.00



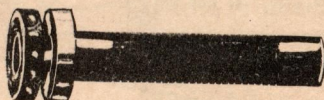
No. 10160 Model V-8 Piston pin inserter.....\$1.85

These tools are correctly designed for quick and easy wrist pin operations. Heat pistons in boiling water before using tool.



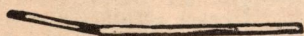
No. 10135 Model A spring perch bushing punch.

Price.....\$0.85

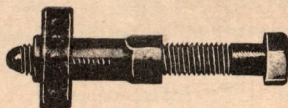


No. 10127 Model A clutch pilot bearing inserter.

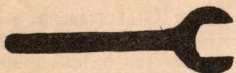
Price.....\$1.50



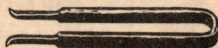
No. 10137 Model A shackle bolt punch. Price.....\$0.85



No. 10134 Clutch Pilot bearing puller.
Price.....\$1.50



No. 10138 Model A cam gear nut wrench.
Price... ..\$1.80



No. 10139 Model A Oil pump supporter
Price.....\$0.25



No. 10159 V-8 spring shackle rubber bushing punch.
Price each.....\$0.60



No. 10140 Pump packing tool.....\$0.30

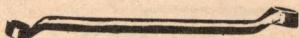
PERFECTED DESIGN AND QUALITY

Special Ford Tools



No. 10141 Model V-8 and B rear spring spreader.....\$4.75

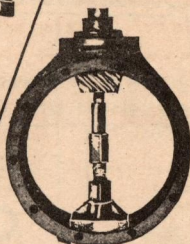
No. 10142 Model A (not illustrated) similar to above design except raised in center.....\$5.75



No. 10114 Model A-AA-B
square brake nut wrench-\$1.50



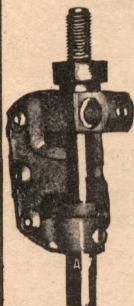
No. 10155 Model B, V-8
Wheel puller.....\$5.00



No. 10154 Model B, V-8
pinion gear remover. Does
the job quickly without
damage to gear or shaft.
Price.....\$3.50



No. 10149
Model A holder
For valve guide
halves. Insert
guide in this
tool for clean-
ing on wire
wheel or hand
brush.
Price.....\$0.60



No. 10152 Mod-
el A-8-V-8
Spindle bush-
ing puller
and replacer.
Price - \$1.75



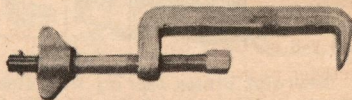
No. 10147
Model A-AA
radius rod bolt
holder. Pre-
vents bolts
dropping in
flywheel hous-
ing.....\$0.50



No. 10153 Model A-AA-BB- V-8
spindle bolt punch, Ea. \$0.85



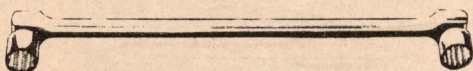
No. 10110 Brake shoe spring
tool. Springs easy to in-
stall or remove with this
tool. Price.....\$1.00.



No. 10158 High Pressure grease Shackle Saver.
For Zerk fittings. Price.....\$1.75

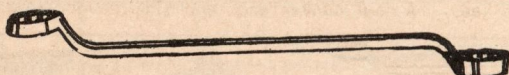
THE WORLDS FINEST TOOLS

Special Chevrolet Tools



One wrench does the work of two with greater ease and convenience.

No. 10215 Chevrolet 6 link joint con rod and main bearing socket flex wrench. Price.....\$2.50

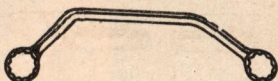


No. 10286 Chevrolet 4 and 6 main bearing wrench.....\$2.50

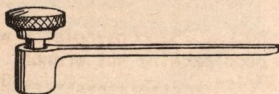
No. 10283 Chevrolet old 4 and late 4 main bearing wrench.....\$2.50



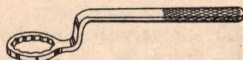
No. 10211 Chevrolet oil pan screwdriver. To be attached to any 3/8" sq. speeder or handle.....\$0.75



No. 10218 Chevrolet generator, starter and manifold wrench. An indispensable tool for these service operations.....\$1.35



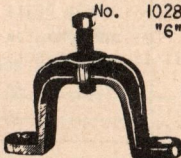
No. 10018 Chevrolet tappet adjusting wrench. Combination sockets and screw driver.....\$2.00



No. 10238 Chevrolet steering eccentric nut wrench.....\$1.50



No. 10219 Chevrolet pinion bearing lock sleeve tool for all model cars and trucks. Slips through bearing and holds lock sleeve against front propellor shaft bearing when replacing propellor shaft in housing. Saves Hours. Price.....\$1.00



No. 10285 Chevrolet "6" Wheel puller

Price \$0.90

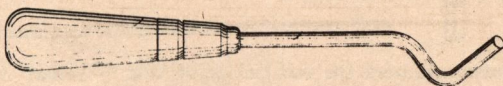
THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

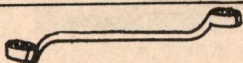
PERFECTED DESIGN AND QUALITY

Special Chevrolet Tools



New Chevrolet Valve Hook

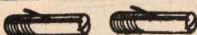
This tool can be inserted through the spark plug hole to hold valve when removing and replacing valve springs. The bends are made exactly correct for clearing the obstruction in the cylinder head. A real convenience and time saver. Each...\$0.75



No. 916 Chevrolet universal joint box wrench.
Price.....\$0.80



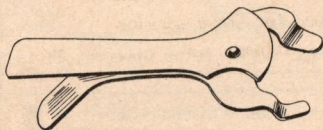
No. 626C Chevrolet 6, 1933
14MM spark plug socket.
13/16" opening.\$0.85



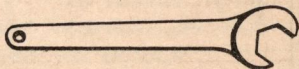
No. 10226 Chevrolet pan
snap ups. Pair.....\$0.40



No. TA141
Chevrolet tappet
adjusting screw
driver.
Price.....\$0.50



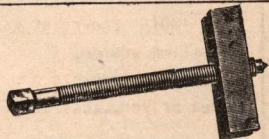
No. 10227 Universal joint hold-
ing tool. Price\$1.25



No. 10232 Chevrolet 6 water
pump packing nut wrench.
Price\$0.90



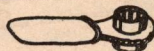
No. 10225 Chevrolet 6 tail
light wrench. Designed to take off
and put on tail light cap screws
conveniently.
Price\$0.90



No. 10217 Crank shaft
timing gear puller.
Price\$3.00



No. 10224 Carb. bowl nut
wrench each.....\$0.90



No. 10230 Starter Switch
ratchet wrench.....\$0.75

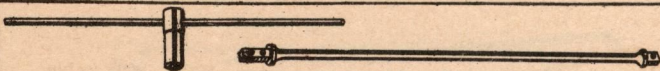
THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

THE WORLDS FINEST TOOLS

Special Tools



For fast cylinder head work the combination of this "flywheel" type Tee head and 18" extension are ideal. It spins like a flywheel.

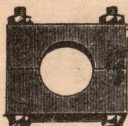
No. 54 Tee head	\$1.00	No. 60C 10" Extension ..	\$1.35
60D 18" Extension	1.50	60B 8" Extension ..	1.25
		60A 5" Extension ..	1.10



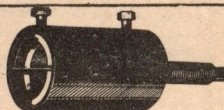
No. 10320B Buick cylinder head wrench. Will service all cylinder head bolts.....\$2.75



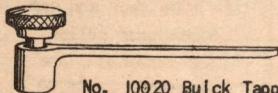
No. 10351 Buick timing gear puller, late models.....\$4.50.



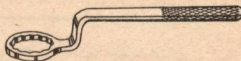
No. 10350 Buick fibre timing gear clamp, used with gear puller....\$2.50



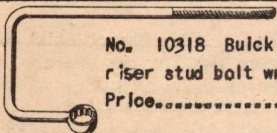
No. 10352 Buick timing gear pusher and puller.....\$4.95



No. 10020 Buick Tappet Adjusting Tool \$2.00



No. 10336 Buick Steering Eccentric Adj. Wrench, Ea. \$1.50



No. 10318 Buick heat riser stud bolt wrench. Price.....\$1.00

Nos. 418 and 418J universal sockets for manifold nuts. Price.....\$1.50.



ADAPTERS FOR DIFFERENT SIZE AXLES



ADAPTER LOCK PIN

INNER RACE PULLER

INNER RACE



Axle and Bearing Race Puller

A husky, long lasting axle and bearing race puller built for the most stubborn case you ever encountered. Price complete with three axle adaptors, 1", 7/8" and 3/4" and bearing race puller\$9.75

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

PERFECTED DESIGN AND QUALITY

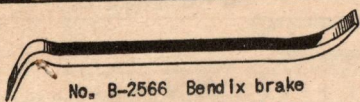
Special Tools



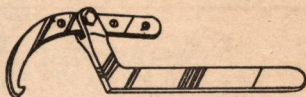
No. 10505 Hupp valve tool.....\$1.75

A very important tool on all Hupp valve grinds. Securely

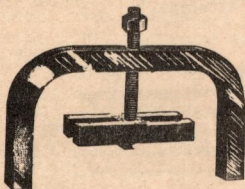
holds washer valve stem lock nuts while valve is being unscrewed.



No. B-2566 Bendix brake adjusting wrench...\$0.60



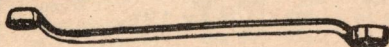
No. ISW adjustable spanner wrench. Takes a large number of splined nuts.....\$1.85



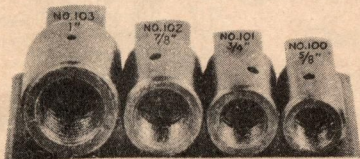
No. 10404 Hudson-Essex main bearing cap puller Price.....\$2.85



No. 10722 Studebaker timing gear and cam shaft gear puller. For threaded fibre gears.....\$6.00.



No. 10624 Packard (and other) cylinder head wrench 5/8 and 3/4" openings\$2.00



NEW
SIZES
WHEEL
KNOCKOFFS

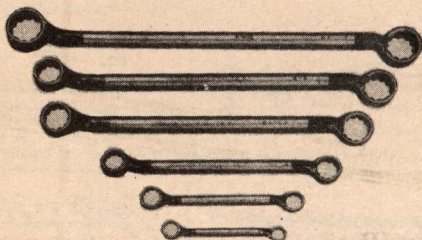
No. 102-N
7/8-16 thread
wheel knock
off, late
Nash.....\$0.85

No. 102-E
7/8 x 18
thread wheel
knock off for
Hudson-Essex
Price...\$0.85

No. 101-C
13/16 x 16
thread wheel
knock off for
late Chevrolet
Price....\$0.85

Complete
listing of
wheel knock
offs for all
cars on another
page.

IF YOU DO NOT FIND THE SPECIAL TOOL YOU WANT, CALL OR WRITE, WE PROBABLY CAN SUPPLY, STANDARD STOCK ITEMS LISTED ONLY.



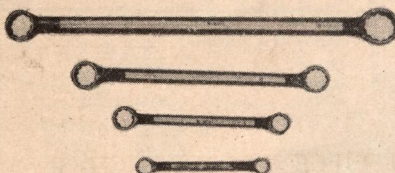
Techniheat Offset Head Box Wrenches

An ideal set of box wrenches for the mechanic. No duplication of sizes, thin socket walls, perfect broaching, super strength.

No.	Openings	Price
912	3/8 and 7/16"	\$0.75
916	1/2 and 9/16" .....	.80
921	5/8 and 11/16" .....	.90
925	25/32 and 13/16"	1.10
924	3/4 and 7/8"	1.20
930	15/16 and 1"	1.30
No. 906 Set	All numbers listed above	6.05

SPECIAL NOTE: Other sizes of the 900 series box wrenches are available as per the following list.

No.	Openings	Price	No.	Openings	Price
914	7/16 and 1/2"	\$0.75	922	11/16 and 3/4"	\$0.95
918	9/16 and 5/8" .....	.85	928	7/8 and 15/16"	1.25
919	19/32 and 11/16" .....	.85	932	1 and 1-1/16"	1.50
920	5/8 and 3/4" .....	.90	936	1-1/8 and 1-1/4"	2.75



No.	Openings	Price
1012	3/8 and 7/16"	\$0.75
1016	1/2 and 9/16" ....	.80
1021	5/8 and 11/16" ....	.90
1024	3/4 and 7/8"	1.20

No. 1004 Set as above.. 3.65

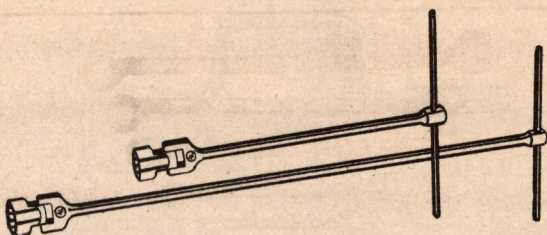
Techniheat 15 degree Offset Box Wrenches

The 1000 series box wrenches have 15° offset heads. Many mechanics prefer this type wrench to the full offset head. Very convenient in close places.

SPECIAL NOTE: Other sizes of the 1000 series box wrenches are available as per the following list.

No.	Openings	Price	No.	Openings	Price
1014	7/16 and 1/2"	\$0.75	1020	5/8 and 3/4"	\$0.90
1018	9/16 and 5/8" .....	.85	1022	11/16 and 3/4" .....	.95
1019	19/32 and 11/16" .....	.85	1028	7/8 and 15/16"	1.25
			1032	1 and 1-1/16"	1.50

PERFECTED DESIGN AND QUALITY

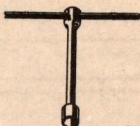
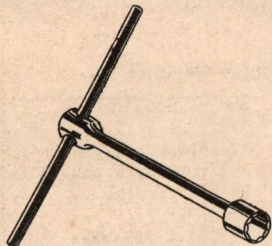


TECHNIHEAT UNIVERSAL TEE WRENCHES

Practically every nut screwing operation can be done quicker and better with Universal Tee Wrenches. Having non detachable sockets the universal joint can be made much less cumbersome than the standard universal sockets. You should have three of the most popular nut sizes in both lengths. Will save much time and make your work easier. Heads have sliding bar tee heads.

12" LENGTH		
No.	Socket Opening	Price
1112	3/8".....	\$2.30
1114	7/16".....	2.35
1116	1/2".....	2.40
1118	9/16".....	2.50
1120	5/8".....	2.60
1122	11/16".....	2.70
1124	3/4".....	2.80

18" LENGTH		
No.	Socket Opening	Price
1412	3/8".....	\$2.45
1414	7/16".....	2.50
1416	1/2".....	2.55
1418	9/16".....	2.65
1420	5/8".....	2.75
1422	11/16".....	2.90
1424	3/4".....	3.00



TECHNIHEAT ONE PIECE TEE WRENCHES

These non detachable socket, solid tee wrenches are forged from a solid bar of alloy steel. Lengths, other than those specified may be obtained on special order.

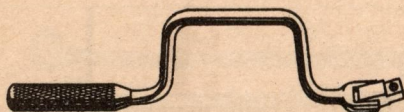
12" LENGTH		
No.	Socket Opening	Price
2112	3/8".....	\$1.00
2114	7/16".....	1.20
2116	1/2".....	1.35
2118	9/16".....	1.35
2120	5/8".....	1.45
2122	11/16".....	1.50
2124	3/4".....	1.60
2128	7/8".....	2.00

18" LENGTH		
No.	Socket Opening	Price
2212	3/8".....	1.35
2214	7/16".....	1.55
2216	1/2".....	1.65
2218	9/16".....	1.70
2220	5/8".....	1.80
2222	11/16".....	1.85
2224	3/4".....	1.95
2228	7/8".....	2.35

THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**



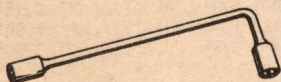
Techniheat Link Joint Speeder Handles

For the mechanic that wants a tool of great usefulness, these Link-joint speeders are better than anyother tool of this type. Attach socket, try it on main and con rod nuts. Equally advantageous on cylinder head cap screws, wheel rim lug nuts, pan cap screws, etc. Use it to break loose and cinch down then straighten up handle to operate as an ordinary speed wrench.

No.	Std. 1/2" Square Connection	Price
10	short SHANK Link joint Speeder	\$2.35
11	LONG shank Link joint Speeder	2.50

JUNIOR type 3/8" Sq. Connect'n

10-J	short SHANK Link joint Speeder	2.00
11-J	LONG shank Link joint Speeder	2.25



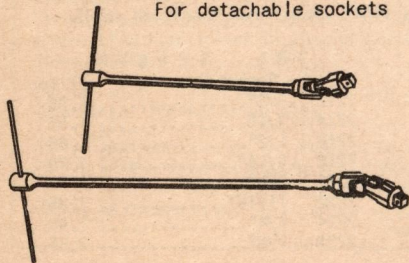
Techniheat "L" Type Double Socket Wrenches

"L" Type Socket Wrenches are very useful on airplane motors and ship fuselage. Use socket on short end for breaking loose or cinching down nuts. Use socket on long end to spin off or on. Made in all sizes socket opening up to and including 1-1/16" Opening.

No.	Socket Opening	Price
1312	3/8".....	\$1.25
1314	7/16".....	1.25
1316	1/2".....	1.35
1318	9/16".....	1.50
1320	5/8".....	1.65
1322	11/16".....	1.75
1324	3/4".....	1.85

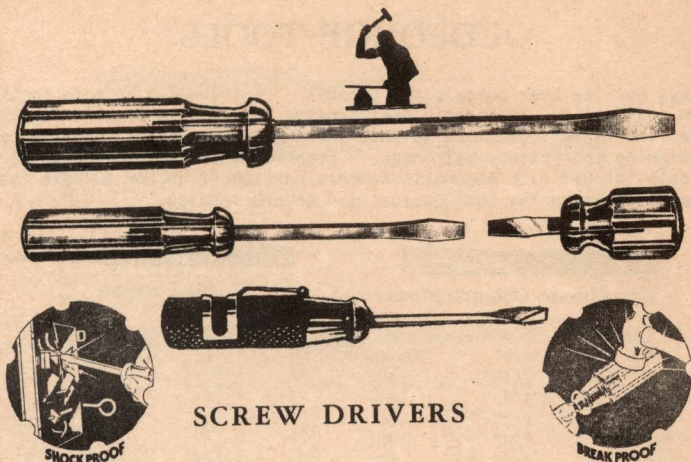
Techniheat Universal Tee Handle

For detachable sockets Std. 1/2" Sq. Con.



No.	Length	Price
1450	12".....	\$2.50
1475	18".....	2.75
Junior Type 3/8" Con.		
1450J	12".....	2.25
1475J	18".....	2.50

PERFECTED DESIGN AND QUALITY



SCREW DRIVERS

THE HANDLE

A shock-proof screw driver with a handle of the most durable shock-proof material known. Machined to fit into the palm, grooved to prevent slipping in greasy hands. It will not slip nor break off. It stands 8,000 volts. You can look into the heart of this driver and see its strength. No mechanic, no electrician, no carpenter, no machinist, will part with this tool once he has experienced its perfect balance.

THE BLADE

This screw driver blade is forged from a special alloy steel. Its long slender taper insures a positive grip in a screw slot. It is forged and treated by master tool smiths.

Number	Blade length	Blade diameter	Price
182	2" blade	1/8" stock	\$0.35
184	4" "	1/8" "	.40
3163	3" "	3/16" "	.65
3166	6" "	3/16" "	.75
3169	9" "	3/16" "	.75
141	1" "	1/4" "	.50
142	2" "	1/4" "	.70
144	4" "	1/4" "	.75
146	6" "	1/4" "	.80
148	8" "	1/4" "	.85
1410	10" "	1/4" "	.95
5167	7" "	5/16" "	1.00
51612	12" "	5/16" "	1.15
386	6" "	3/8" "	1.10
*3812	12" "	3/8" "	1.75
*3816	16" "	3/8" "	2.00

* These sizes have extra large handles.

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

THE WORLDS FINEST TOOLS

OLDFORGE TOOLS

Always buy the best chisels and punches. Nothing can be more costly than low quality, improperly heat treated material. In offering this fine line to our customers we have the greatest faith and confidence of winning your steady patronage. Experience in the production of chisels for use with pneumatic hammers has taught us how to make these hand tools stand the most unusual and severe service.



Flat Chisels, Octagon Stock

No.	Length	Stock	Price
C29	5"	1/4"	\$0.30
C30	5"	5/16"	.40
C31	6"	3/8"	.45
C32	6-1/2"	1/2"	.50
C33	7"	5/8"	.70
C34	9"	3/4"	.95



Pin Punches

No.	Length	Stock	Price
P58	4-1/2"	3/32"	\$0.95
P57	4-1/2"	5/32"	.35
P56	4-1/2"	1/8"	.35
P51	6"	5/32"	.40
P55	6-7/8"	7/32"	.50
P52	7-1/4"	1/4"	.50
P89A	4-1/2"	5/16"	.35
P88	6"	1/2"	.50



Diamond-Point Chisels

No.	Length	Stock	Price
C131A	5"	5/16"	\$0.40
C131	6"	3/8"	.45
C132	7"	1/2"	.55



Cape Chisels

No.	Length	Stock	Price
C331A	5"	5/16"	\$0.40
C331	6"	3/8"	.45
C332	6-1/2"	1/2"	.55



Gouge Chisels

No.	Length	Stock	Price
C231A	5"	5/16"	\$0.40
C231	6"	3/8"	.45
C232	7"	1/2"	.55



Center Punches

No.	Length	Stock	Price
77	6"	5/8"	\$0.65
77A	5"	3/8"	.45
77B	4-1/2"	5/16"	.35



Prick Punches

No.	Length	Stock	Price
PR6	5"	3/8"	\$0.30
PR8	6"	1/2"	.95



Round Nose Chisels

No.	Length	Stock	Price
CR6	6"	3/8"	\$0.50
CR8	6-1/2"	1/2"	.55
CR10	7"	5/8"	.65

Note; Always use a P-89 or P-89A punch to start small pins as it will save pin punch from excess strain.



THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**

OLDFORGE TOOLS



Drift Punches

No.	Length	Stock	Price
3905	6"	1/4"	\$0.30
3907	6-1/2"	5/16"	.40
3909	7"	3/8"	.50
3911	7"	1/2"	.60
3913	8"	5/8"	.65
3915	9"	3/4"	.85
3900	Set of 1 of each of above -		3.30



LONG TAPER PUNCHES

No.	Length	Stock	Price
4005	12"	3/8"	\$0.60
4007	14"	1/2"	.90
4009	16"	5/8"	1.00
4000	Set One each of above		2.50



LINING UP BARS

No.	Length	Stock	Price
74	9"	1/2"	\$0.75
75	16"	5/8"	1.25
76	20"	5/8"	1.75



RIVET BUSTERS

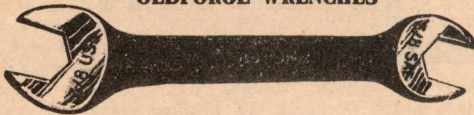
No.	Length	Stock	Price
C38	11"	3/4"	\$1.00
C39	22"	7/8"	1.75

Ask our salesmen about the special combination sets of chisels and punches. Special Sets are delivered to you in extra heavy leatherette rolls with special compartments for each tool. All sets selected to contain the greatest number of necessary tools.



THE WORLDS FINEST TOOLS

OLDFORGE WRENCHES



Open End Wrenches 15° Angle

The Oldforge "Hex in heel" open end wrench is narrow across the face, with a thin jaw section. The opening is milled cold to a close fit on a hexagon nut. Wrench slipping and knuckle bleeding is eliminated. The long reach into tight places allows you to use them on brakes. S.A.E. or U.S.S. sizes are stamped on each wrench as well as the actual inch opening.

No.	Milled openings	Length overall	Price
1012	5/16 X 3/8"	4-1/2"	\$0.45
1214	3/8 X 7/16"	4-1/2"	.45
1416	7/16 X 1/2"	5-1/2"	.65
1618	1/2 X 9/16"	5-1/2"	.65
1820	9/16 X 5/8"	6-1/2"	.80
1922	19/32 X 11/16"	6-1/2"	.80
2024	5/8 X 3/4"	7-1/2"	.95
2428	3/4 X 7/8"	8-1/2"	1.25
2830	7/8 X 15/16"	8-1/2"	1.25
3032	15/16 X 1"	9-1/2"	1.55

The following sizes may also be obtained

1619	1/2 X 19/32"	5-1/2"	.65
1822	9/16 X 11/16"	6-1/2"	.80
2022	5/8 X 11/16"	6-1/2"	.80
2025	5/8 X 25/32"	7-1/2"	.95

No. OF8 Set of eight popular sizes recommended as being an ideal combination: Numbers: 1012, 1214, 1416, 1618, 1820, 1922, 2024, 2830.

Price complete\$6.00

In leatherette roll 6.95



Single End

Tappet

Wrenches

No. OF10 Set, a good combination of sizes for use on practically all cars. Two each of numbers T16 and T18, one each of the following numbers, T17, T20, T21, T22, T24 and T28. Price\$5.20

No.	Opening	Length	Price
T16	1/2"	9"	\$0.45
T17	17/32"	9"	.45
T18	9/16"	9"	.45
T20	5/8"	9"	.55
T21	21/32"	9"	.55
T22	11/16"	9"	.55
T24	3/4"	9"	.65
T25	25/32"	9"	.65
T28	7/8"	9"	.65
T30	15/16"	10"	.75
T32	1"	10"	.75

THORSEN 1475 BUSH ST.



SAN FRANCISCO **TOOLS**

PERFECTED DESIGN AND QUALITY

Lodi Valve Spring Lifter and Split Lock Insertor



No. L-5, Lifter, complete with straight and offset jaws, PRICE.....\$7.00

Valve Lifting is one of the most frequent operations encountered in servicing a motor.

GET INTO HIGH WITH A NEW LODI

This valve lifter does what NO OTHER can do. Besides doing all the lifting operations every other one does, it in addition, CATCHES THE SPLIT LOCKS, when valves are removed and PUTS THEM BACK IN PLACE when ready to reassemble.

Figure up the cost of accessories that have to be bought to go with any other lifter, such as inserters, lock catchers of different design and action, then add the extra time put in setting adjusting etc, these makeshifts. It should not take long to prove that the LODI IS THE LOWEST COST OF THEM ALL.

Note these many improvements

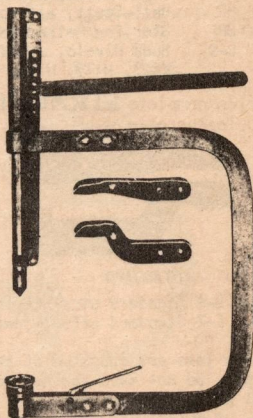
- New tempered, special alloy, steel frame.
- New chrome-moly adjustable offset jaws straight jaws.
- New DUPLEX adjustment for valve lengths.
- New special frame for Cadillac, Lincoln, LaSalle.
- New Lifter for small and medium trucks.
- New Lifter for Large trucks.
- New types of split lock inserters.

IT'S ABSOLUTELY NEW!

THE L-9 SPLITLOCK INSERTER AND CATCHER (shown attached to lower part of lifter illustrated on right), is adapted for use on the following partial list of cars and trucks. Remove tappet assembly, (a minutes job) to operate lifter. If this cant be done, use either pair of straight or offset jaws.

USE L-9 ATTACHMENT ON motors listed as follows;

Chrysler 66, 70, 77, Imperial 8. Continental 12K, 15S. Dodge Victory, Standard, Senior, DA, Dodge Trux. Graham all sixes and eights. Jordan, (Continental 15S). Lycoming ASB, ASD, AEC, AED, UE. Marquette. Oldsmobile. Oakland, (small locks). Peerless Master and Custom. Peerless, (Continental 12 Pierce Arrow. Studebaker President, Commander, Dictator, Rockne, Trux. Federal Trux using Continental motors. Buda, JC214, J214, H260, H298, H381, 404, 428, K429, H173, H199, H205.

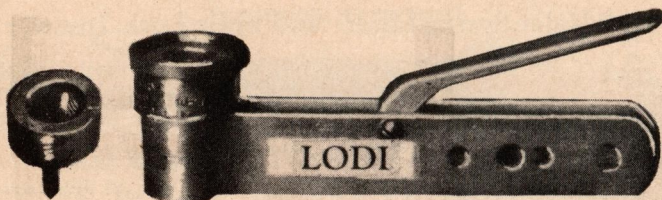


No. L-1, Lifter complete with straight and offset jaws and No. L-9 Split Lock Inserter, the ideal combination for general garage service. PRICE.....\$12.00

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS



No. L-9 Standard split lock inserter. Price each\$5.00

THE FAMOUS SPLIT LOCK INSERTER AND CATCHER

This wonderful attachment is produced exclusively as standard Lodi Equipment. It catches and inserts split locks of varying size in a few seconds time. It can be attached to practically any "C" type lifter.

The No. L9 has been furnished for a long time and is standard for a great number of passenger cars and trucks. Several new models to cover practically the entire range of truck and tractor motors are being offered for the first time. These are almost identical in design with the No. L9, the difference being a slight variation in the diameter of the cup. Prices and description follow:

No. L-11 For clam shell type split locks used in 1928 Dictator model G E Studebaker. Price each 3.50

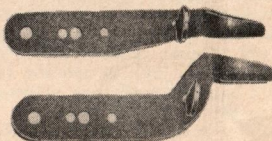
SPECIAL LOCK INSERTERS FOR TRUCK MOTORS

No.	Motor to be used on	Price
XM	Waukesha XA, XAK, 6XL, 6XK, and M Series.....	\$5.00
VSR	Waukesha V, VK, 6KS, 6KU, 6SRL, 6SRK.....	5.00
WB	Waukesha AB, RB, HB,	5.00
HS	Hall-Scott, all motors.....	5.00
SP	Sterling Petrel, all motors.....	5.00
L-9	Buda Hivelo, JC214, J214, H260, H298, H381, 404, 428, K429, H173, H199, H205.....	5.00

STRAIGHT AND OFFSET JAWS



STANDARD



UNIVERSAL

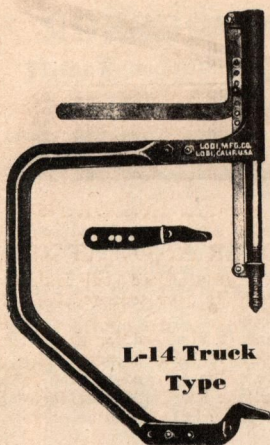
No. L-6 Standard straight jaws.....\$1.00
No. L-7 Standard offset jaws 1.00

These jaws are supplied at twenty five cents less than the new Universal type. Do not have the new adjusting screw. Perfectly satisfactory on all passenger car work.

No. L-6 Universal straight jaws\$1.25
No. L-7 Universal offset jaws 1.25

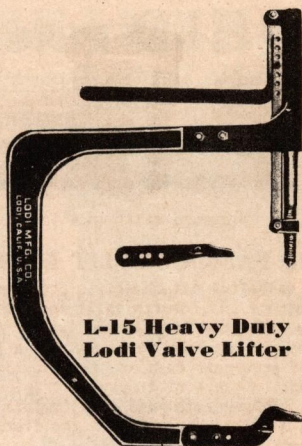
These new "Chrome Moly" jaws, heavy gauge, are designed and built to stand unusual stress and strain. The design gives ample clearance behind valve plates. Seats of the jaws are straight and will allow full contact with the spring seat irrespective of diameter. The Universal Jaws are supplied with adjusting screw to prevent spreading under pressure.

PERFECTED DESIGN AND QUALITY



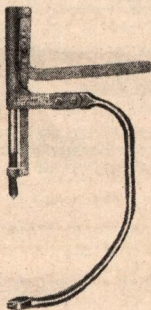
**L-14 Truck
Type**

Designed for use on small and medium trucks. Also adapted for use on passenger cars. Note clearance at lower end of frame. Plenty of room around manifolds. Standard split lock inserters can be attached to frame. See list for size required. As illustrated with two pair of jaws, each...\$7.95

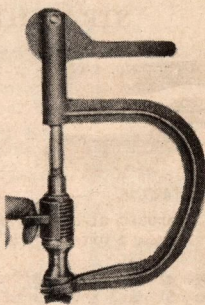


**L-15 Heavy Duty
Lodi Valve Lifter**

A big heavy duty tool, nothing on the market equals it for strength and convenience. 13" manifold clearance. Cast steel frame. Perfectly adapted for use on large trucks such as "B" series Waukesha Macks, etc., Standard split lock inserters supplied for all types motors. As illustrated with two pair of jaws, each.....\$9.50



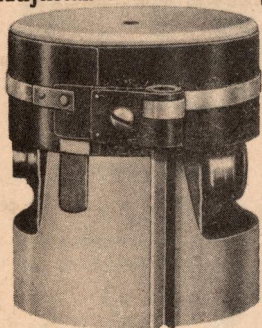
The mechanism of this lifter is the same as other Lodi tools excepting the frame, which is especially designed for V-8 motors such as Lincoln, Cadillac and LaSalle. Frame can be purchased separately, (\$2.50). As illustrated, each.....\$6.50



This tool has been especially designed for use on V-8 FORD motors. The most convenient and practical lifter for the V-8 Ford. Note it comes with attachment and clip for compressing valve springs and holding them. Can be used on Chevrolet motors. Price complete.....\$3.25

REID RING COMPRESSOR

Adjustable Tension Tape— Pressure Where You Want It



Eliminate broken piston rings—save time—save money. The Reid Compressor does it. Made in three sizes, passenger car, truck and tractor. Nos. 1, 2, 3.

We are now able to offer this fine ring compressor with improved SLIDING TAPE. The exclusive feature enables the operator to apply great pressure on the edge of the compressor, when inserting pistons in the top of the cylinder barrel. This is a great convenience, as there is no champfer in the top, which makes it hard slow work, without the REID.

- No. 1. Compressor for pistons from 2-1/2 to 4-1/4". Will fit all passenger cars and most trucks. Price complete\$2.90
 No. 2. Compressor for pistons from 3-1/2 to 5-1/4". Price complete with extra tape 2.45
 No. 3. Compressor for pistons 4 to 6-1/4" or 5 to 7-1/2". Price complete with extra tape 4.25

PARTS

- Handle\$0.90
 Spool assembly75
 Tape30

REID PISTON EXPANDERS

"HIGHER SPEED LEVELS—NEW CAR SMOOTHNESS"

The simplest, most efficient, least expensive and surest piston expander ever produced. Adds practically no weight to the piston. Never exerts excessive pressure, It simply takes up looseness and eliminates piston slap in a jiffy.

Can be installed in the great majority of cases by simply dropping crank case. Expander is then inserted in pliers and set in place

Made for all split skirt aluminum pistons. Not necessary to machine pistons before installing. Not necessary to run car slowly after installation



SHORT TABLE SHOWING A FEW OF THE MOST POPULAR APPLICATIONS

Car	No of Expander	List price per set.
Ford "A"	#10 (4)	\$1.20
Essex	#2 (6)	1.80
Chrysler 70	#8 (6)	1.80
Dodge 4	#8 (4)	1.20
Hudson	#4 (6)	1.20
Plymouth	#6 (4)	1.20

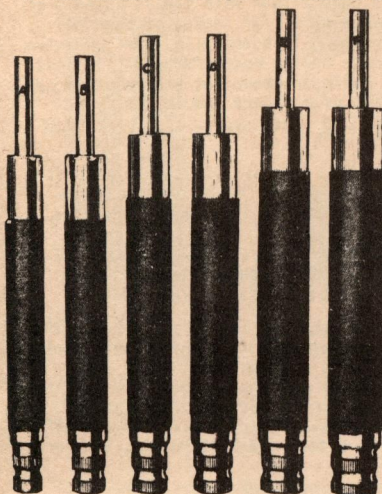
Space will not permit a complete listing of sizes and cars they fit. This may be obtained by applying to our salesman or write us direct. A chart showing all sizes, piston diameters, special instructions and list prices will be sent immediately. Garage discount 33-1/3%

PERFECTED DESIGN AND QUALITY

TUSTIN REAMERS

This is why Tustin Abrasive Reamers are better

All the combined advantages of the Reamer and Hone with none of the disadvantages.



This group covers range of all passenger cars

Group 1

Tool	Range	
(A)	47/64" to 51/64"	Price • \$22.50
(B)	51/64" to 55/64"	
(C)	55/64" to 59/64"	
(D)	59/64" to 63/64"	
(E)	63/64" to 1 3/64"	
(F)	1 3/64" to 1 7/64"	

(All tools have suitable overlap)

Minimum price of any single tool in this group 4.00

This group covers wide range of Bus, Truck, Aero and Marine Engines

Group 2

Tool	Range	
(G)	1 7/64" to 1 13/64"	Price • \$25.00
(H)	1 13/64" to 1 19/64"	
(I)	1 19/64" to 1 25/64"	
(J)	1 25/64" to 1 31/64"	
(K)	1 31/64" to 1 37/64"	

(All tools have suitable overlap)

Minimum price of any single tool in this group \$ 5.00

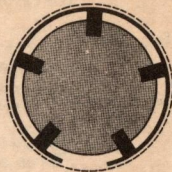
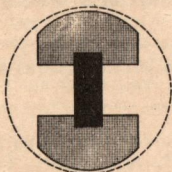
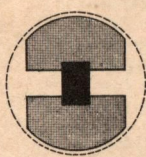


Figure 1 — Showing ordinary split type hone. When contracted completely, this tool is round but when expanded to the slightest degree it becomes elliptical in form. Note that the greater the expansion, the less the efficiency. Each stage of expansion reduces the amount of abrasive surface available for cutting.

Figure 2 — Showing the expansion principle of Tustin Abrasive Reamer. Note that regardless of whether the tool is expanded or contracted, it remains round. Its efficiency does not diminish when expanded and for this reason it is recognized as the fastest cutting and most efficient tool on the market.

PARTS PRICE LIST

Tools "A" to "F"		Tools "G" to "K"	
MANDRIL	\$3.00	MANDRIL	\$3.50
SPLINES	each .25	SPLINES	each .25
SLEEVE .....	.75	SLEEVE .....	.75
NUT (Expander) .....	.25	NUT (Expander) .....	.25
NUT (Contractor) .....	.35	NUT (Contractor) .....	.35

Tustin Abrasive Reamers are guaranteed against defective material and workmanship. They are further guaranteed against damage in ordinary use. (Usual wear and carelessness excepted.) Adjustments only upon factory authorization.

In addition to the general sets shown above, a number of special sets are also manufactured. These are intended for the service departments of Dealer organizations and fleet owners who require only certain sizes.

(Piston pin sizes only.)

Other Special Sets for Truck, Bus, Aero and Marine Motors on Special Order

ABRASIVE PRICE LIST

TOOLS "A" to "F"	per Doz. \$1.00
TOOLS "G" to "K"	per Doz. 1.25

Only one abrasive is required for each tool.

Available in single and assorted sizes in lots of one dozen. Specify sizes when ordering.

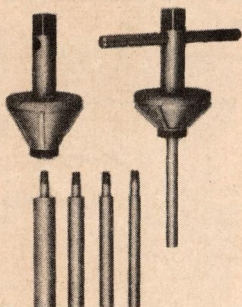
THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

Inserted Blade Valve Reseating Tools

SET NO. 10



Contains one 45 and one 60 degree cutter. Five pilots: 5/16", 21/64", 11/32", 3/8" and 19/32". Driving can be done either with the "T" handle or by using a 1/2" socket or open end wrench. This set will ream the valve seats on the Model "A" and "T" Fords, 4 cylinder Chevrolet and about 85 per cent of all cars and trucks.

No. 10 Set\$2.50

Set No. 10-A\$2.50
Same as No. 10 Set except 30 degree cutter instead of 60 degree.

Set No. 11\$1.75
One 45 degree cutter and three pilots: 5/16", 3/8", 19/32"

Set No. 15-A\$1.20
One 2" 60 degree cutter only

Set No. 15\$1.20
One 2" 30 degree cutter only

FOR CHEVROLET SIX

Set No. 13\$1.45
Contains 1-1/2" 45 degree cutter and 5/16" pilot.

Set No. 18 1.20
Contains 1-1/2" 60 degree cutter without pilot

Set No. 18-A 1.20
Contains 1-1/2" 30 degree cutter without pilot

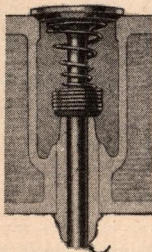
Set No. 17 3.15

Contains 1-1/2" 45 and 1-1/2" 60 degree cutters.
Three pilots, sizes 5/16", 5/16 x .001, 5/16" x .002.

Pilots

STANDARD, OVER OR UNDERSIZE PILOTS, each\$0.25

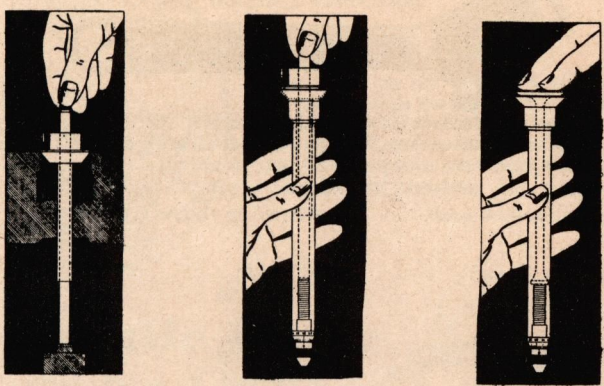
VALVE PACKING



This valve packing is a specially designed coil retaining spring and packing that positively SEALS the clearance between the intake valve stem and valve guide against foreign air and oil being drawn into the combustion chamber in addition to the regular charge of air and gas, governed by the carburetor adjustment.

Price each\$0.35

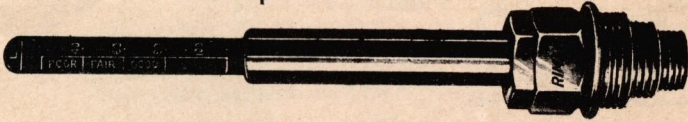
Micrometer Gauge for Ford Valves



Place the depth gauge in the valve guide chamber, allowing the end to rest on the tappet, push the head down against the valve seat, lock it there with the set screw, this gives the length of the valve plus the clearance required, then place the depth gauge in the micrometer gauge, the reading on the micrometer sleeve minus the clearance required is the length the valve is to be ground to. The graduations on the micrometer sleeve are .001 of an Inch.

No. 130	Complete set for Model A and B Fords	\$3.50
No. 131	Complete set for Model A & B and V-8 Fords	4.50
No. 125	Valve micrometer gauge for A and B Fords	2.25
No. 126	Extra spindle to be used with No. 125 for Ford V-8 ....	.50
No. 135	Depth Gauge for A and B Fords	1.25
No. 136	Extra bushings to be used with No. 135 for Ford V-8 ...	.50

Compression Indicators

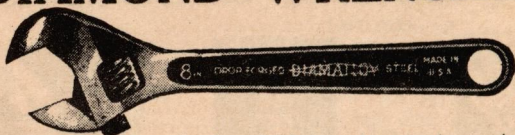


Screw the indicators in the spark plug holes and demonstrate compression on all cylinders at once. Shows poor, fair or good compression on indicator blade; shows pounds per square inch, on high or low pressure motors. Base threaded for 7/8", 14MM, and 18MM. Spark plug holes.

No. 96	Set of six	\$10.00
No. 94	Set of four	7.00
No. 95	Set of One	1.75

THE WORLDS FINEST TOOLS

DIAMOND WRENCHES



Diamond wrenches are made entirely of high carbon tool steel, subjected to a long process of annealing, hardening and careful scientific tempering. They have jaws like the point of a cold chisel, hard, tough, and strong to resist all tendency to upset or crack off on the edges.

size inches	Weight each	Capacity inches	List each Full or Semi-polished
4"	2 oz.	1/2	\$0.65
6	5 oz.	3/4	.65
8	10 oz.	15/16	.80
10	18 oz.	1-1/8	1.00
12	2 Lbs.	1-5/16	1.50
15	4-5/16 Lbs.	1-11/16	2.25
18	7 Lbs.	2-1/16	3.25

DIAMALLOY

Diamalloy Thin Wrenches



Manufactured from a new alloy of steel having remarkable strength. Twice as strong and one third thinner than old standard pattern.

No. D46	Full polish, 6", 1/4" capacity, 13/32" thick	\$0.80
No. D48	Full polish, 8", 15/16" capacity, 15/32" thick	1.00
No. D410	Full polish, 10", 1-1/8" capacity, 9/16" thick	1.25
No. D412	Full polish, 12", 1-5/16" capacity, 11/16" thick	1.90

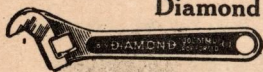
DIAMOND PLIERS

No. K-26	6" slipjoint	\$0.50
No. K-28	8" slipjoint	.65
No. K-210	10" slipjoint	.90



Diamond slip joint pliers are the most perfectly constructed and finished tools obtainable.

Diamond Adjustable Wrench Parts



NO. 1. HANDLE NOT SUPPLIED AS REPAIR PART

These parts will repair all Standard adjustable wrenches. Where parts don't fit, money will be refunded upon return.

Genuine Diamond Parts

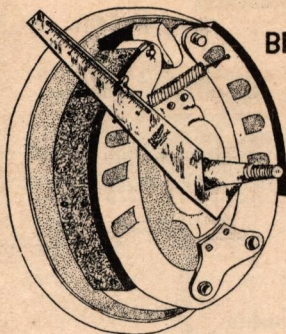
Size	No. 2 Jaw Reg.	Alloy	No. 3 Knurl Reg.	Alloy	No. 4 Pin Reg.	Alloy	5 Spring
4.....	\$.25	\$.25	\$.10	\$.12	\$.05	\$.05	\$.05
6.....	.25	.25	.10	.12	.05	.05	.05
8.....	.30	.35	.12	.14	.05	.05	.05
10.....	.40	.45	.15	.16	.05	.05	.05
12.....	.60	.70	.25	.26	.10	.10	.05
15.....	.85		.35		.10		.05
18.....	1.15		.55		.10		.05

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

UNIVERSAL BRAKE GAUGE



For centering and adjusting all internal brake shoes on automobiles, trucks and aircraft. Adjustable to any drum diameter 10 to 18 inches. Self centering on any size shaft, straight or tempered.

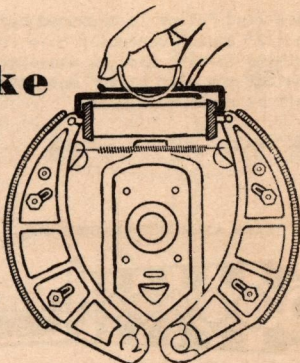
Price\$1.75

Hydraulic Brake Cylinder Clamp

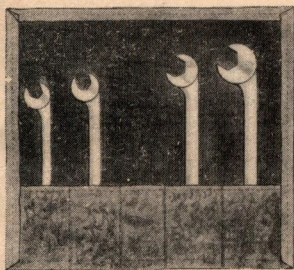
A great time saver for mechanics and brake specialists.

Compress spring clip to open or close.

Price per set of four\$1.00



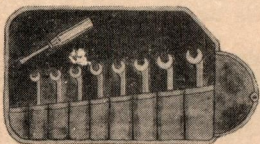
Ignition Wrench Set



NICKEL ALLOY STEEL—Nickel Plated

Forged from nickel alloy steel, finished in nickel plate with heads buffed bright. Milled openings at 15 degree angle: 15/64; 7/32; 9/32; 3/8". At 60 degree angle: 13/64; 1/4; 5/16; 11/32.

No. 304 in case\$1.85

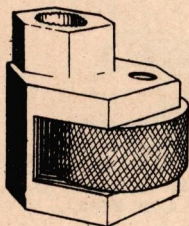


Forged from chrome nickel steel. Have 15 and 60 degree angle openings. Openings identical with #304 set except that each opening is available in both the 15 and 60 degree angle.

No. 219 Set in case\$2.85

THE WORLDS FINEST TOOLS

STUD REMOVER AND REPLACER

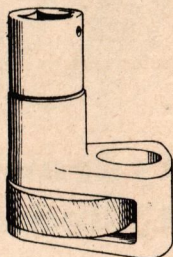


This tool has the double advantage of knurling inside the hole that slips over the stud bolt in addition to the gripping wheel. This gives a positive double wedging action. Can be turned with either an open end wrench or 7/8" socket.

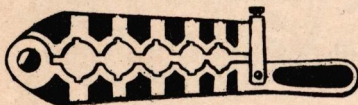
No. N-2 \$1.80

This Stud Puller is operated by inserting handle in 1/2" square connector hole in the top which permits forcing special steel gripping roller to contact the stud bolt. Operates on either the left or right hand side.

No. M-3 \$2.25



TRUCK AXLE RETHRADING DIE



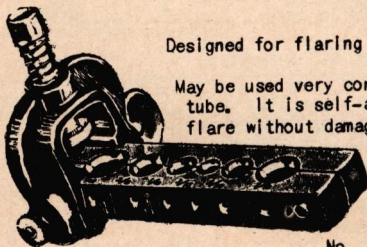
For trucks, busses and large propeller shafts. Will handle 90 per cent of all truck and bus shafts. It has five sizes: 7/8 x 14, 1" x 14, 1-1/8" x 12, 1-1/4" x 12 1-1/4" x 7 threads.
Price \$6.50

This Universal Axle Rethrading Die Set is highly recommended.
Sizes: 5/8", 3/4", 7/8", 1", and 1-1/8" S.A.E. Also good for rethreading cam shafts, drive shafts, truss rods and crankshafts
Price \$6.00

Axle Rethrading Die



Tube Flaring Tool



Designed for flaring copper, brass or aluminum tubing.

May be used very conveniently without removing the tube. It is self-aligning and will make a perfect flare without damaging the tube

Designed for tubing 3/16", 1/4", 5/16", 3/8", 7/16" and 1/2" outside diameter.

No. 262 Flaring tool \$2.85

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

PERFECTED DESIGN AND QUALITY

Swedish Steel Feeler Gauges



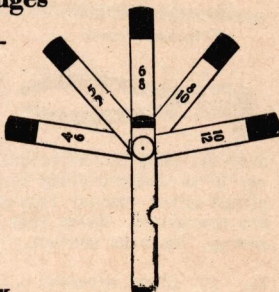
Accurately ground, genuine Swedish feeler gauges for tappets, brakes, piston clearance, etc.

No.	Length	Blades	Price
5011	3-1/2"	1-1/2, 2, 4, 6, 8, 10, 12, 15.	\$0.75
5007	9"	2, 3, 4, 5, 6, 8, 10, 12, 15	1.50
Feeler gauge blades from .0015 to 40M each, .....			.10

2-In-1 Feeler Gauges

The new Two in One Feeler gauges are designed to meet requirements of modern valve adjustment. The shoulder between each thickness acts as a stop gauge when clearance is between sizes.

No. A1	Four blades with sizes: 4-6, 6-8, 8-10, 10-12	\$1.00
No. A2	Five blades with sizes: 4-6, 5-7, 6-8, 8-10, 10-12	\$1.25
Blades for the above gauges, each ...		.15



THICKNESS GAUGE STOCK

Feeler gauge stock may be purchased in any length or thickness desired.
Price per foot\$0.20

FEELER GAUGE STOCK HOLDERS

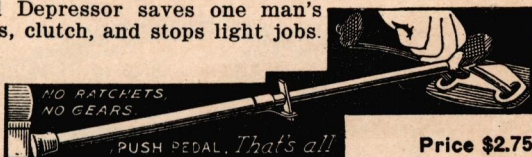


Suitable for holding any length of feeler stock. Coil in the handle and feed out as needed.

Single holders, each	\$0.20
Double holders, each ....	.35

EXCEL PEDAL DEPRESSOR

Excel Pedal Depressor saves one man's time on brakes, clutch, and stops light jobs.



Price \$2.75

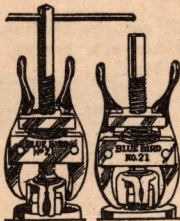
THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

BATTERY TOOLS

Bluebird Terminal Lifter No. 21



Designed and guaranteed to easily remove the most badly corroded clamp of any type. Grips from below or the sharp points of jaws engage sides of clamp with a vise like grip.

No. 21 Terminal lifter\$1.50

Clamp Spreader and Terminal Cleaner



A quick, easy and efficient way to spread and clean terminal clamps after removal from post. One operation. Saves time and energy, improves contact.

No. 20 Clamp spreader ...\$1.00

Universal Battery Carrier



"Double grip, can't slip"

Either end fits negative or positive post.

Price each \$0.25

Bluebird Battery Plier No. 11



Universal battery plier. The handle carries a cutting tool that will quickly clean the battery posts. End clearance eliminates cover breakage.

No. 11 Battery plier\$1.25

STARTER SWITCH RATCHET WRENCH



Rubber insulated handle.

Three sizes: 9/16, 5/8

and 11/16" socket opening.

Price each\$0.75

Heller's Famous Masterwrenches



Furnished in five sizes; pipe-jaw only. Full polished.

Length overall	Capacity for pipe	Capacity in inches	Price each
6"	1/8 to 3/8	5/16 to 11/16	\$1.25
8"	1/4 to 3/4	1/2 to 1-1/16	1.60
10"	3/8 to 1	9/16 to 1-1/4	2.20
14"	1/2 to 1-1/2	7/8 to 1-13/16	3.60
18"	3/4 to 2	1-1/8 to 2-1/2	4.95

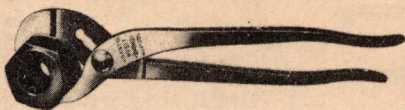
THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

PERFECTED DESIGN AND QUALITY

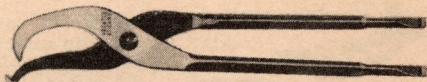
UTICA PLIERS



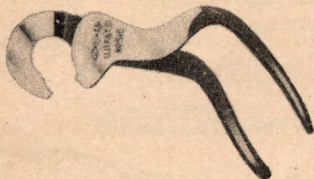
No. 517 Utica pumpnut
Plier, 10"\$1.50

No. 517 Ignition plier
5" 1.00

NO. 521

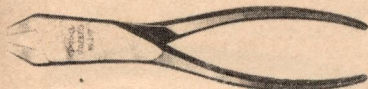


Utica heavy duty brakespring plier. 12-1/2" \$2.75



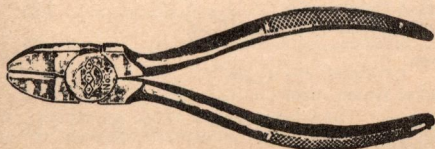
No. 516 Utica brake adjusting
plier for Steeldraulic brakes.
Price\$1.50

No. 39 Utica alloy steel
diagonal plier, 7"\$2.00



No. 1 Utica battery pliers
Price\$1.25

No. 40 Wide jaw heavy
duty diagonal....\$1.25



No. 41 Utica alloy
steel mechanics dia
gonal.\$1.65

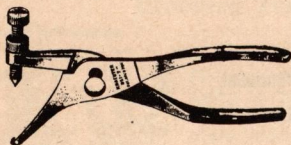
THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

KRAEUTER PLIER

Kraeuter Brake Band Pliers



No. 851, 7"\$1.50

Specially designed for removing and replacing internal brake springs on large internal brake drums without disassembling. Adjustable for Ford and for all internal brake systems using springs.

No. 851, 10"\$2.00

BRAKE SHOE WASHER SPREADER



For quickly spreading and closing the "C" type washers on Brake Shoe Anchor Studs used on many brake systems. These "C" washers are springy, flexible open-end washers, difficult to remove or replace with ordinary tools. The jaws are grooved both back and front to fit these "C" washers.

No. 751, 7"\$1.00

WISS UC-8 SNIPS

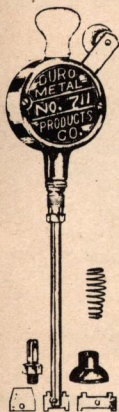
For straight cutting, curves and circles.

No. UC-8 8"\$1.40
No. UC-9 9-1/2" 1.95



6 in. Wilde Wrench, nickel finish, each.....	\$1.00
6 in. Satin finish, each .....	.80
Range of jaws 7/8 inch.	
7 in. Wilde Wrench, nickel finish, each	1.05
7 in. Satin finish, each .....	.85
Range of jaws 3/4 inch.	
8 in. Wilde Wrench, nickel finish, each.....	1.10
8 in. Satin finish, each .....	.90
Range of jaws 1 1/8 inch.	

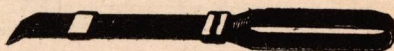
MASTER "711" VALVE GRINDER



Designed so as to advance and reverse at a different place at each revolution of the handle. Ball bearing thrust insures ease of action. Long and short extensions provided. With the fittings furnished the grinder is a universal type. Three universal type blades and rubber vacuum cup furnished, with a valve grinding spring.

No. "711" Grinder complete with all attachments.
Price\$2.75

FLEXO CARBON SCRAPERS



Tempered steel wires. Sliding adjustable band controls Tension fingers. Price\$0.50

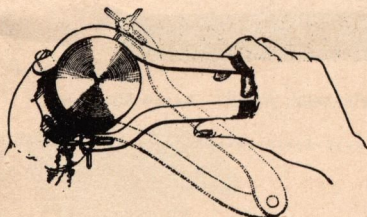
Carbon Whisker



Quickly removes all carbon deposit. Polishes but does not scratch or damage surface. Just a few strokes up and down and the job is finished.

No.	Size	
B-10	5/16	Fits Chevrolet and Ford guide, inside diameter.
B-11	11/32	Auburn, Chrysler and others
B-12	3/8	Buick and others
B-14	7/16	White, Reo and others
B-19	19/32	Ford A valve guide port, (Guides removed)
B-32	1"	Ford V-8 Valve guide port
Price any size, each		\$0.85

RING GROOVE CLEANER



Will clean groove widths 1/8", 3/16", 7/32" and 1/4" on all sizes of pistons. By loosening screw cutter can be revolved to the desired size, insuring exact fit in the groove without binding, and being so braced in the groove that it must run true.

Price each \$1.00

SPLIT KEY INSERTER

For installing split keepers quickly without hazard of dropping in crank case. Price\$0.50



THE WORLD'S FINEST TOOLS

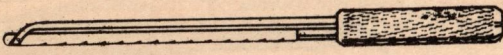
Milflex Duplex Hack Saw Blades



Duplex Hack Saw Blades combine very fine teeth for quick, accurate "starting" with the balance of the blade in regular 18 to 24 tooth pitch.

Length			Price dozen.
8"	24-32	teeth Duplex blades	\$.60
10"	24-32	teeth Duplex blades	.65
12"	24-32	teeth Duplex blades	.75
6"	32	teeth Midget hacksaw blades	.60

JUNIOR HACK SAW FRAME



Designed especially for splitting bushings and getting into places where there is not room to work a standard hack saw frame. Length 10".

Price\$0.75

Vixen Files



NU-ANGLE VIXEN FILES

Combining all necessary curves required. Reversed teeth permit pulling instead of pushing.

Price Nu-Angle file ...\$2.15

Special handle for above files.

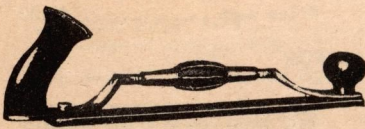
Price\$1.50

SPECIAL CURVED VIXEN FILE HANDLE

VIXEN CURVED TOOTH FILES



Very flexible. Works on marble, aluminum, babbit, brake shoes and bearings.
Vixen files, 14" price each\$2.15

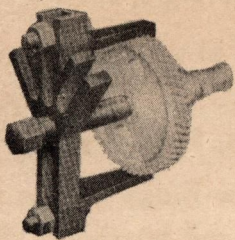


Can be used on either 12 or 14" Flexible Files. Easily adjusted to concave or convex.

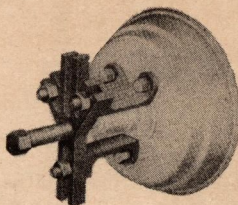
ADJUSTABLE FLEXIBLE FILE HOLDER Price, adjustable holder ..\$3.00

PERFECTED DESIGN AND QUALITY

Universal Hub and Gear Puller



Pulling Gears



Pulling Wheel Hubs
from Studs

MADE OF HEAVY DROP FORGED STEEL
1" FINE THREAD PULLING SCREW

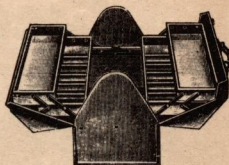
Will pull Gears, Bearings, Steering wheels, Fan Pulleys, Disc Drums all automobile hubs that have wire wheels. 98% of all 1931-32 hubs do not have threaded hub. It is necessary to first remove wheel from hub or drum and then attach puller to stud bolts.

No. 500 Universal Hub and Gear Puller- - - ; - - - - - \$6.00

ALL STEEL TOOL BOXES

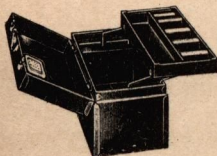


Note: Only a few of the most popular tool boxes are illustrated here. A full line of all types and sizes are continuously carried in stock. Send for special tool box catalog or ask our salesmen for details.



No. 116 16"- - - \$7.00
No. 119 19"- - - 7.50
No. 121 21"- - - 8.00

No. 1017 17"- - \$7.00
No. 1018 18"; - 7.30
No. 1021 21"- - 7.90



HANDY TACKLE BOX
No. CS-14 - - - \$1.25



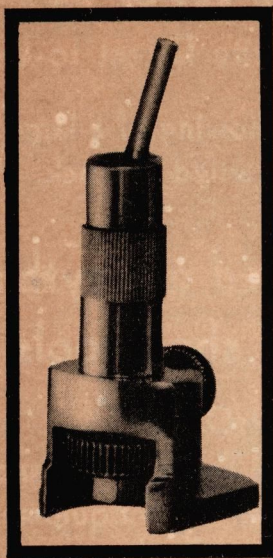
STEP SAVER TOTE TRAY
No. 19-T- - - - \$1.65

THORSEN 1475 BUSH ST.



SAN FRANCISCO TOOLS

Green Ridge Cutter



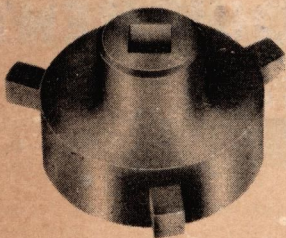
New Power Driven
Rotary File Type

No. P-1 **\$7⁵⁰**

This New Ridge Cutter is Fast, Smooth and Sturdy . . . A High Quality Cutter at Low Cost. Operated by attaching any electric drill to universal joint shaft on top of cutter.

A New and More Satisfactory Method of Quickly Removing Cylinder Ridges.

Green Ridge Cutter



Hand Driven
Type

No. H-1 **\$7⁵⁰**



Operates in any Cylinder 2 3-4 to 4"
Cutting easy to observe . . . Always in sight . . . Quick adjustment and positive lock . . . Low cost . . . Efficient operation.

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Space does not permit the showing of a large number of lines regularly carried in stock.

Consult us when in need of anything in connection with shop tools

THIS CATALOG SHOWS . .

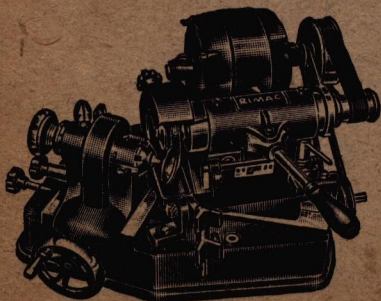
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New Rimac Heavy Duty Grinder. A full size machine capacity up to $\frac{3}{8}$ " diameter. Extra heavy bearings built in; Diamond wheel dresser, $\frac{1}{4}$ horsepower motor, non vibrating drive, endless woven fabric belts.

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